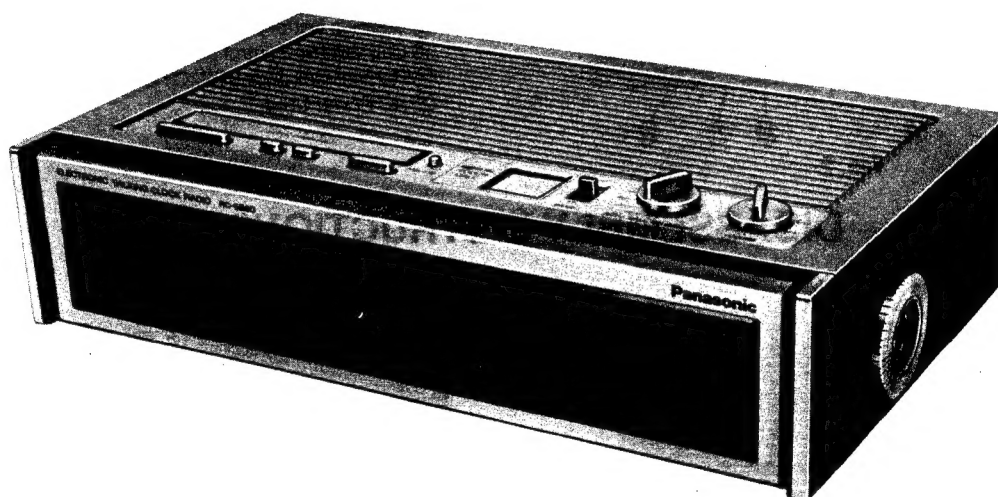


# Service Manual

Radio  
RC-6800/©

FM-AM ELECTRIC DIGITAL TALKING CLOCK RADIO



## ■ SPECIFICATIONS

|                         |   |
|-------------------------|---|
| Frequency Range:        | FM 88~108 MHz<br>AM 525~1610 kHz  |
| Intermediate Frequency: | FM 10.7 MHz<br>AM 455 kHz   |
| Sensitivity:            | FM 6 $\mu$ V for 50 mW Output<br>AM 220 $\mu$ V/m for 50 mW Output                          |
| Power Output:           | 1.5 W (Max)   |
| Power Source:           | AC 120 V 60 Hz  |
| Battery:                | 9 V (One 9 volts Battery)<br>(Panasonic 006P or equivalent)<br>(For Battery Back-up System) |
| Power Consumption:      | 12 W at 120 V   |

|             |   |
|-------------|---|
| Speaker:    | 10 cm (4") PM Dynamic Speaker   |
| Dimensions: | 13 $\frac{1}{8}$ " (Wide) $\times$ 3 $\frac{5}{8}$ " (High) $\times$<br>7 $\frac{3}{4}$ " (Deep)<br>(337 $\times$ 91 $\times$ 196) mm |
| Weight:     | 5 lb. 5 oz. (2.4 kg) without battery  |
| Impedance:  | Speaker ..... 8 $\Omega$<br>FM Antenna Terminal ..... 75 $\Omega$   |

Specifications are subject to change without notice.

Weights and dimensions shown are approximate.

(Les poids et dimensions mentionnés sont approximatifs.)

# Panasonic®

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## LOCATION OF CONTROLS AND COMPONENTS

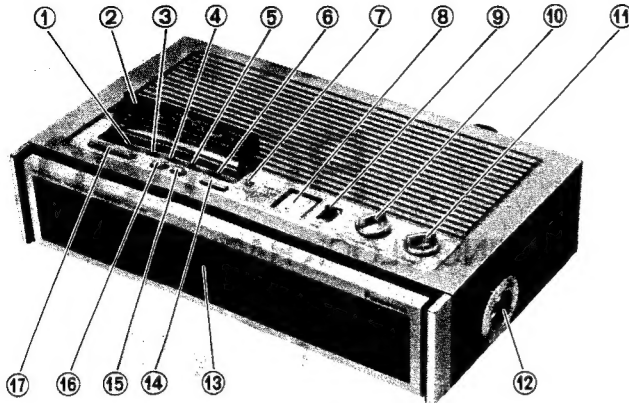


Fig. 1

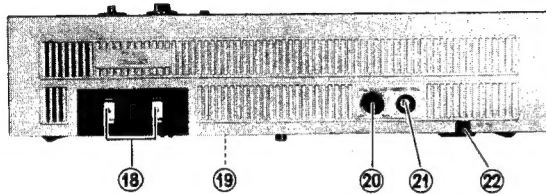


Fig. 2

- ① Brightness Selector (OFF/LOW/HIGH)
- ② Clock Controls Compartment Cover
- ③ Fast Advance Button (FAST)
- ④ Slow Advance Button (SLOW)
- ⑤ Time Set Selector (TIME/LOCK/ALARM)
- ⑥ Alarm Selector (CHIRP/OFF/RADIO)
- ⑦ Clock Controls Compartment Cover Release Button (PUSH OPEN)
- ⑧ Manual Call Switch (MANUAL TOUCH CALL)
- ⑨ Band Selector (FM/AM)
- ⑩ Auto Call Selector (AUTO CALL SELECTOR)
- ⑪ Volume Control (VOLUME)
- ⑫ Tuning Control
- ⑬ Auto Time Call Indicator (AUTO TIME CALL)
- ⑭ On Button (ON)
- ⑮ Off Button (OFF)
- ⑯ Sleep Button (SLEEP)
- ⑰ Doze Button (DOZE)
- ⑱ External FM Antenna Terminals (FM ANT)
- ⑲ Back-up Battery Compartment (Bottom)
- ⑳ Call Volume Control (CALL VOLUME)
- ㉑ Remote Call Jack (REMOTE CALL)
- ㉒ AC Power Cord

## DISASSEMBLY INSTRUCTIONS

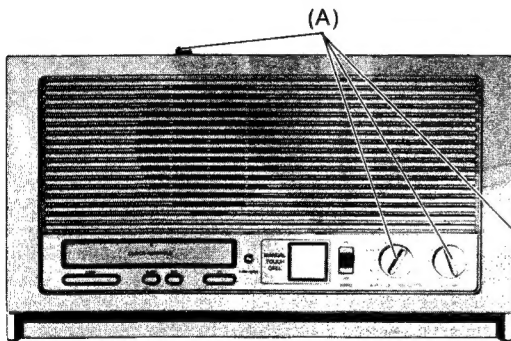


Fig. 3

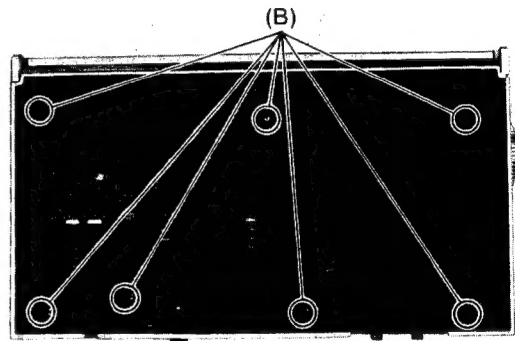


Fig. 4

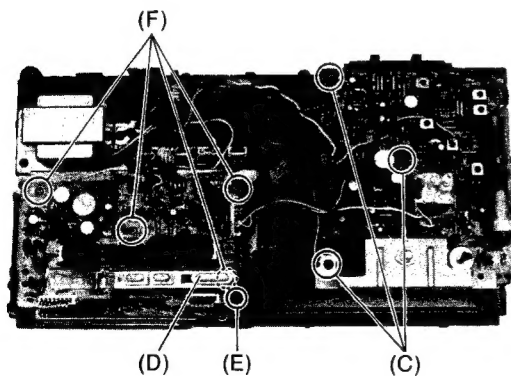


Fig. 5

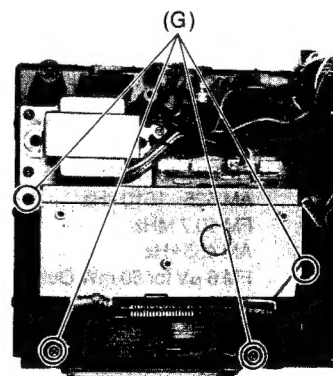


Fig. 6

| Procedure | To remove—           | Remove—                       | Shown in Fig.— |
|-----------|----------------------|-------------------------------|----------------|
| 1         | Cabinet cover        | Knobs ..... (A)×4             | 3              |
| 2         |                      | Screws (3×40) ..... (B)×7     | 4              |
| 3         | Radio Circuit Board  | Red Screws (3×12) ..... (C)×3 | 5              |
| 4         | Switch Circuit Board | Knob ..... (D)×1              | 5              |
| 5         |                      | Red Screw (3×12) ..... (E)×1  | 5              |
| 6         |                      | Screws (3×6) ..... (F)×4      | 5              |
| 7         | Clock Circuit Board  | Red Screws (3×12) ..... (G)×4 | 6              |

## ■ ALIGNMENT INSTRUCTIONS

| READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT  |   |                                     |   |  |   |
|---|---|-------------------------------------|---|--|---|
| <b>Notes:</b><br>1. Set volume control to maximum.<br>2. Set band selector switch to AM or FM.<br>3. Power on switch to ON. |   |                                     | 4. Set power source voltage 120 volts AC.<br>5. Signal generator output should be set no higher than necessary to obtain an output reading, to prevent overlooking. |  |   |
| SIGNAL GENERATOR  |   | RADIO DIAL SETTING                  | INDICATOR (VTVM or SCOPE)   | ADJUSTMENT   | REMARKS   |
| CONNECTIONS   | FREQUENCY   |                                     |   |  |   |
| AM-IF ALIGNMENT   |   |                                     |   |  |   |
| (1)   | Fashion loop of several turns of wire and radiate signal into loop of receiver.           | 455 kHz<br>30% Mod.<br>with 400 Hz. | Point of non-interference.<br>(on/about 600 kHz)  | Output meter across voice coil.  | T <sub>102</sub> (1st IFT)<br>T <sub>103</sub> (2nd IFT)<br>T <sub>104</sub> (3rd IFT)<br><br>Adjust for maximum output.                |
| AM-RF ALIGNMENT   |   |                                     |   |  |   |
| (2)   | "   | 511 kHz                             | Tuning capacitor fully closed.  | "  | L <sub>108</sub> (OSC Coil)<br><br>"  |
| (3)   | "   | 1675 kHz                            | Tuning capacitor fully open.  | "  | CT <sub>104</sub> (OSC Trimmer)<br><br>"  |
| (4)   | "   | 550 kHz                             | Tune to signal.   | "  | ( * 1 ) L <sub>107</sub> (ANT Coil)<br><br>Adjust for maximum output. Adjust L <sub>107</sub> by moving coil bobbin along ferrite core. |
| (5)   | "   | 1500 kHz                            | Tune to signal.   | "  | CT <sub>103</sub> (ANT Trimmer)<br><br>Adjust for maximum output. Repeat steps (2)~(5).   |
| ( * 1 ) Cement antenna bobbin in place with wax after completing alignment..  |   |                                     |   |  |   |
| FM-IF ALIGNMENT   |   |                                     |   |  |   |
| (6)   | High side thru. 0.001μF to point ▼ ,<br>Negative side to point ▼.                         | 10.7 MHz<br>(400 kHz SWP.)          | Point of non-interference.<br>(on/about 90 MHz).  | Connect vert. amp. of scope to point ▼ ,<br>Negative side to point ▼ . | T <sub>101</sub> (FM 1st IFT) (Primary)<br><br>Adjust for maximum amplitude. (Refer to fig. 7).   |
| (7)   | "   | "                                   | "   | "  | T <sub>105</sub> (FM 1st IFT) (Secondary)<br><br>Adjust for maximum amplitude. (Refer to fig. 8).                                       |
| FM-RF ALIGNMENT   |   |                                     |   |  |   |
| (8)   | Connect point ▼ through FM dummy antenna Negative side to Point ▼ .<br>(Refer to fig. 9). | 87.2 MHz                            | Tuning capacitor fully closed.  | Output meter across voice coil.  | L <sub>106</sub> (OSC Coil)<br><br>( * 2 ) Adjust for maximum output.   |
| (9)   | "   | 109.2 MHz                           | Tuning capacitor fully open.  | "  | CT <sub>102</sub> (OSC Trimmer)<br><br>"  |
| (10)  | "   | 90 MHz                              | Tune to signal.   | "  | L <sub>105</sub> (Tuning Coil)<br><br>"   |
| (11)  | "   | 106 MHz                             | Tune to signal.   | "  | CT <sub>101</sub> (Tuning Trimmer)<br><br>( * 2 ) Adjust for maximum output. Repeat steps (8)~(11).                                     |
| ( * 2 ) Three output responses will be present; proper tuning is the center frequency.                                      |   |                                     |   |  |   |

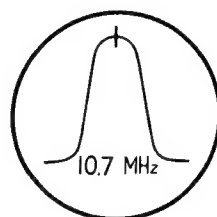


Fig. 7

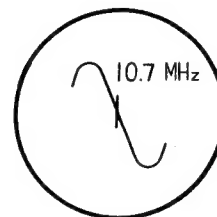


Fig. 8

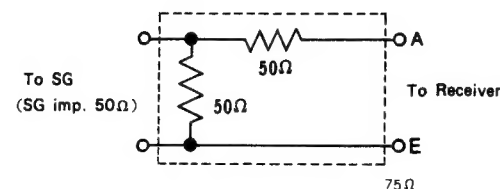


Fig. 9 FM Dummy Antenna

## ■ BATTERY BACK UP CIRCUIT ALIGNMENT

**Notes:**

1. Disconnect AC power cord.
2. Remove the battery (006P).

| DC POWER SUPPLY          |           | FREQUENCY COUNTER          | ADJUSTMENT                        | REMARKS   |
|--------------------------|-----------|----------------------------|-----------------------------------|---|
| CONNECTIONS              | VOLTAGE   |                            |                                   |   |
| Connect to battery snap. | 8.5 volts | ⊕ Side.....<br>⊖ Side..... | VR <sub>260</sub><br>(semi-fixed) | Adjust VR <sub>260</sub> for $1.6667 \times 10^{-2}$ sec. on frequency counter reading. |

## ■ CLOCK OSCILLATOR FREQUENCY ALIGNMENT

**Notes:**

1. Set power source voltage 120 volts AC.
2. Push the manual call switch.

| FREQUENCY COUNTER          | ADJUSTMENT        | REMARKS  |
|----------------------------|-------------------|--|
| ⊕ Side.....<br>⊖ Side..... | CT <sub>201</sub> | Adjust CT <sub>201</sub> for 201 ± 1 kHz on frequency counter reading. |

## ■ ALIGNMENT POINTS

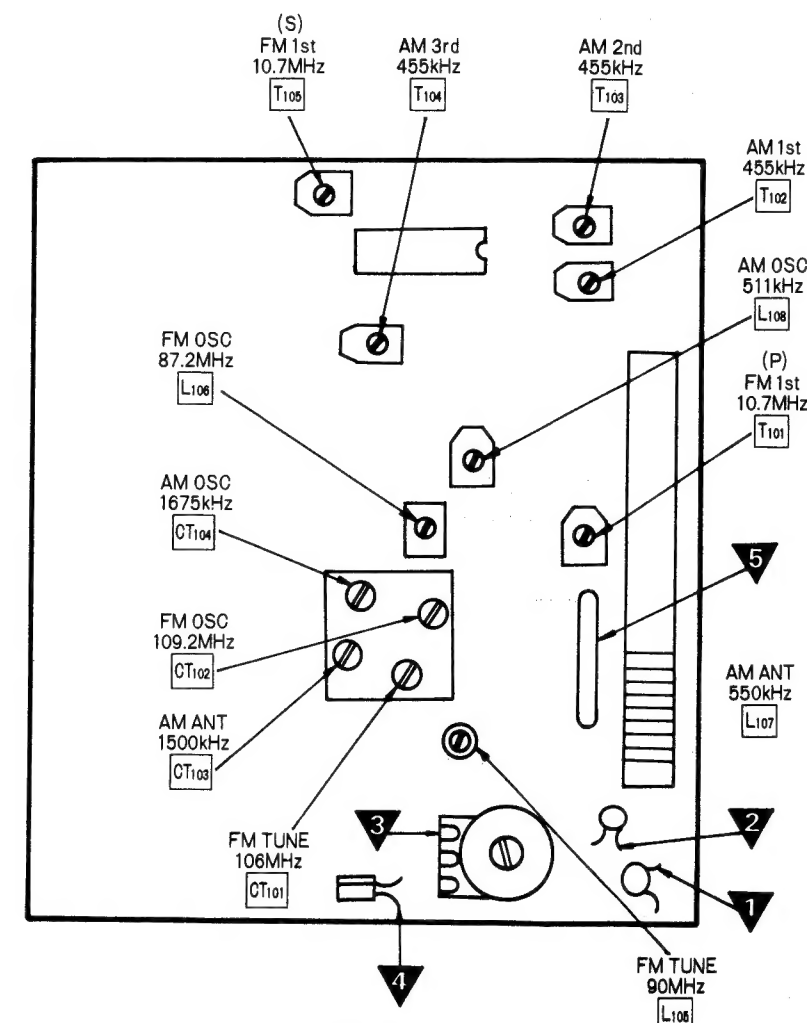


Fig. 10

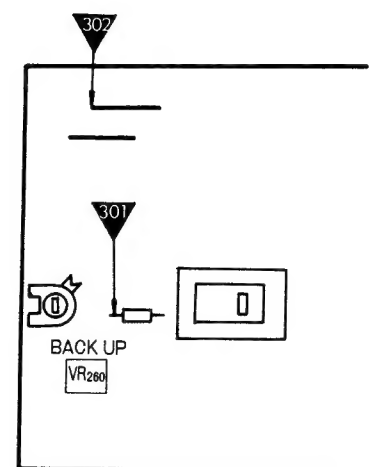


Fig. 11

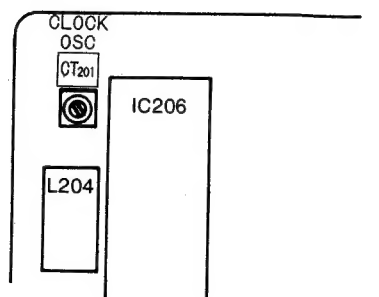
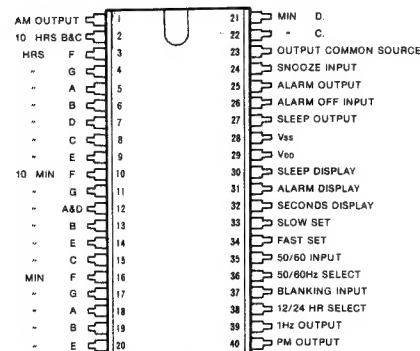
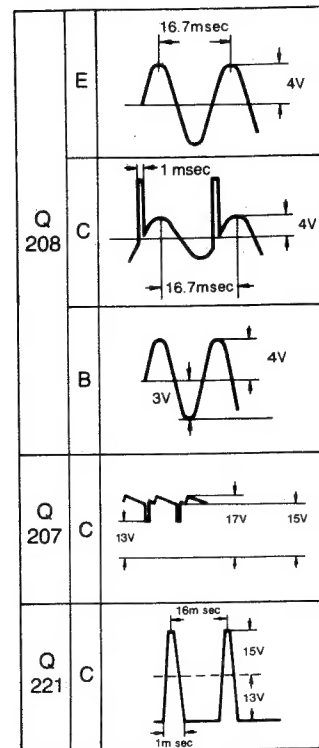
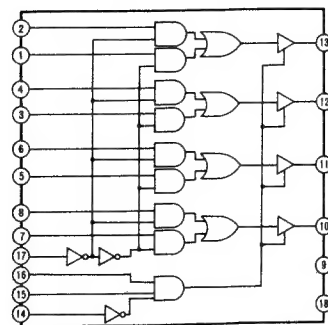


Fig. 12

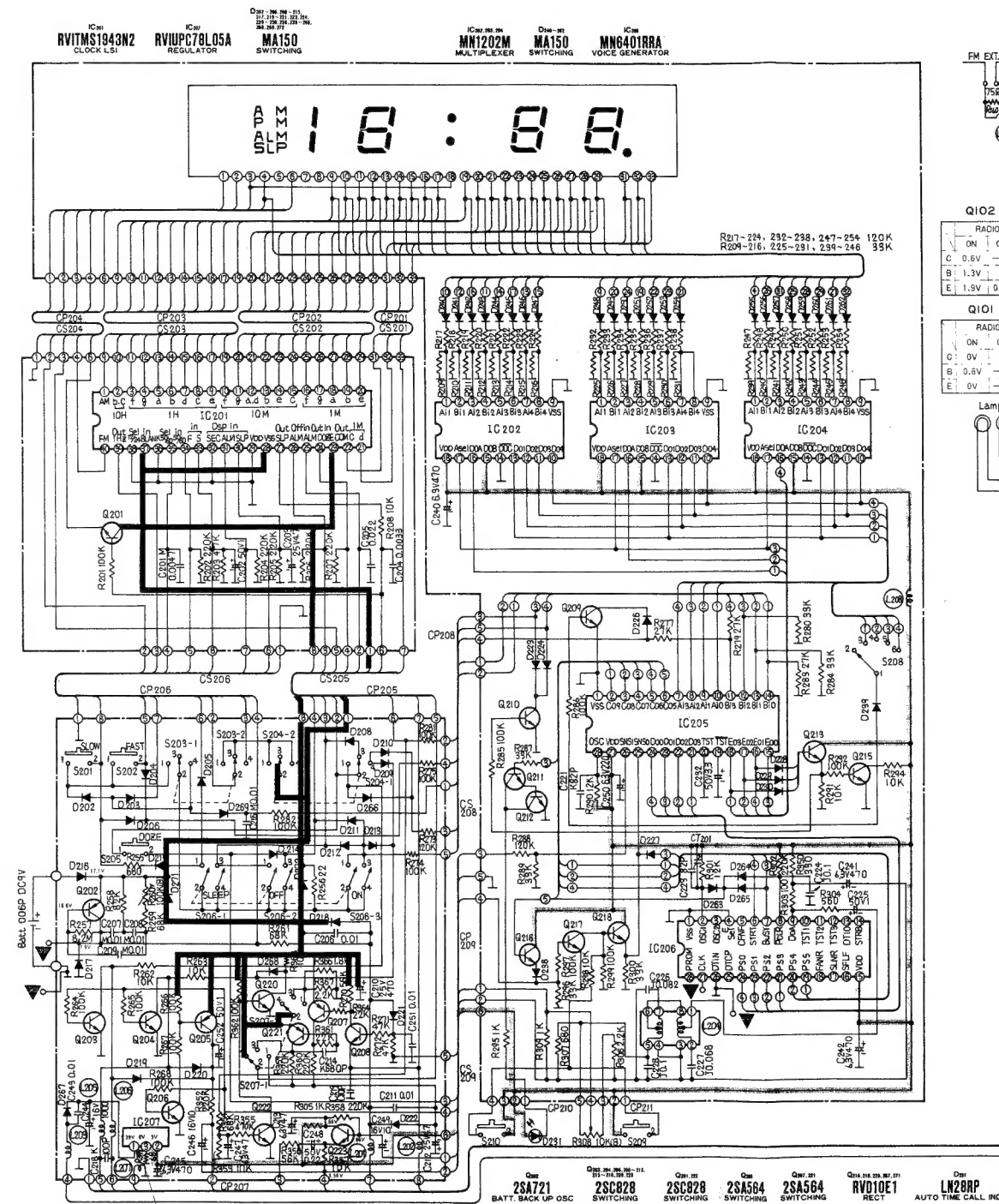
## Schematic Diagram—Model RC-6800/©



IC201 (RVITMS1943N2)



IC202~204 (MN1202M)



## Notes:

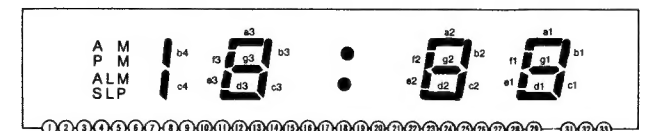
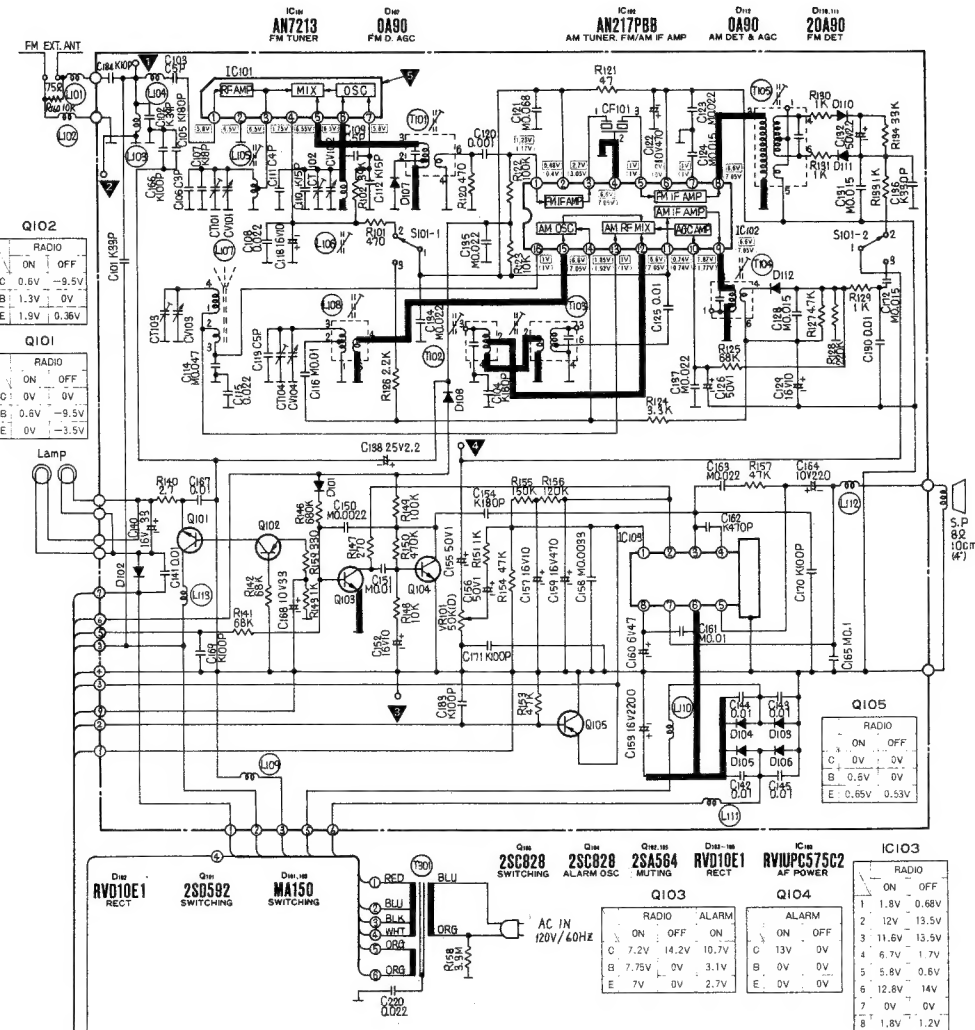
- S101: Band Switch in "FM" position.  
(②... FM, ③... AM)
- S201: Slow switch.
- S202: Fast switch.
- S203: Time set switch in "LOCK" position.  
(①... TIME, ②... LOCK, ③... ALARM)
- S204: Alarm selector switch in "OFF" position.  
(①... CHIRP, ②... OFF, ④... RADIO)
- S205: Doze switch.
- S207: Brightness switch in "HIGH" position.  
(①... OFF, ③... LOW, ④... HIGH)
- S208: Auto call selector switch in "OFF" position.  
(③... 1 min, ④... 15 min, ⑤... 30 min, ⑥... 60 min)
- S209: Remote call switch.
- S210: Manual call switch.
- DC voltage measurements are taken with electronics voltmeter based on negative voltage line.  
□... FM, ( )... AM

- VR101..... Volume Control
- VR260..... Battery Back-up Adjustment.

## Important safety notice

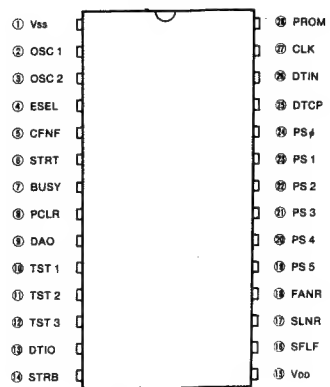
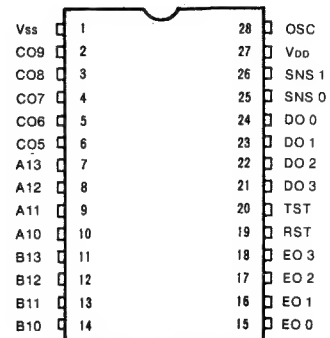
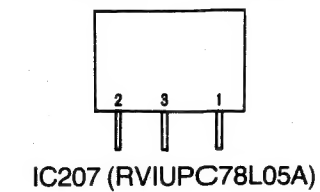
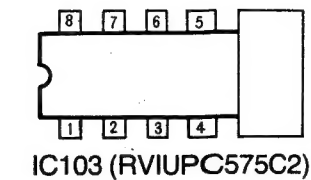
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards.

When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the schematic.





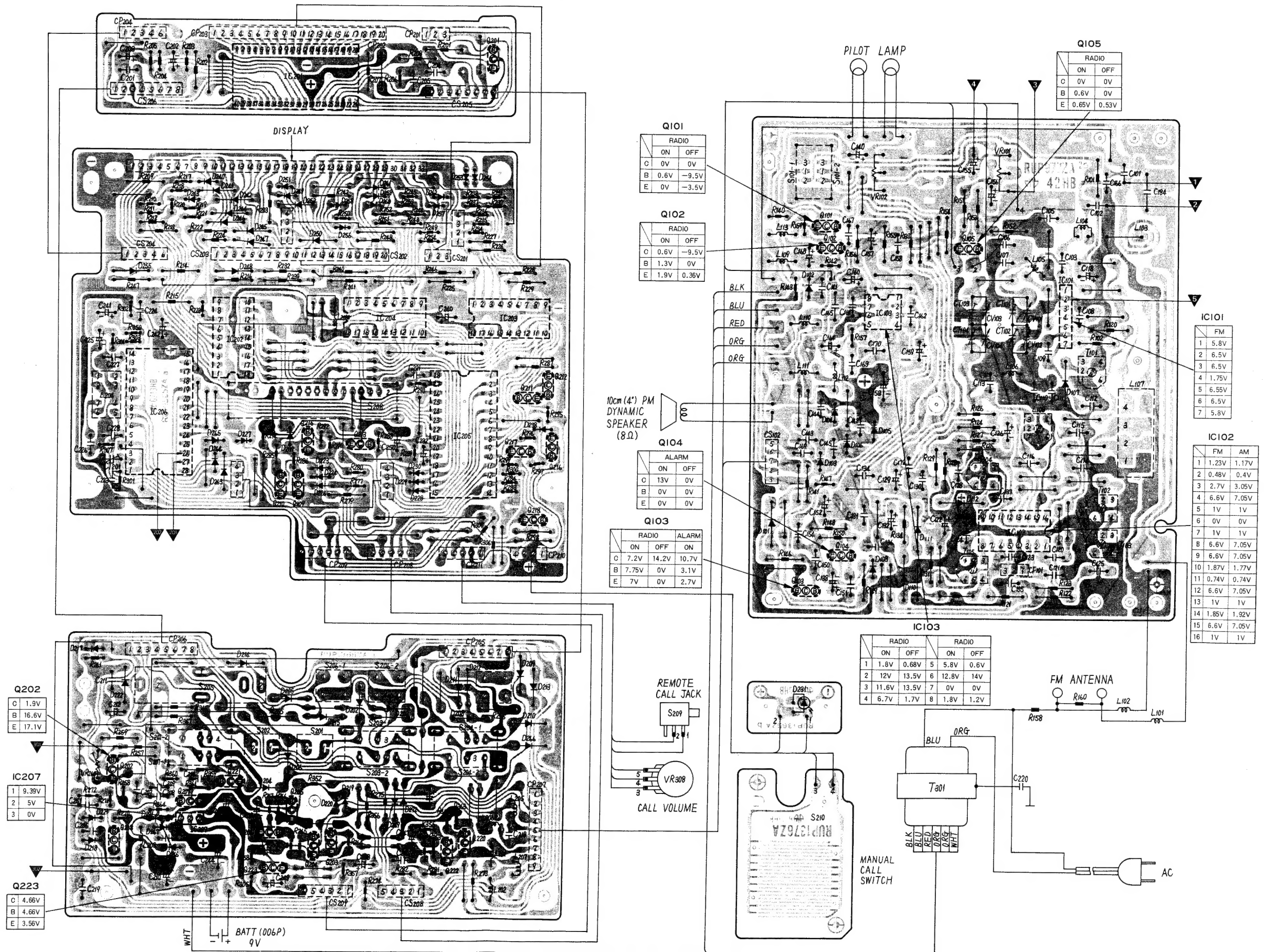
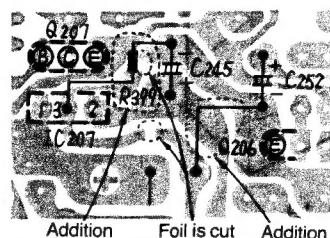
## Circuit Board Wiring View—Model RC-6800/©



There are two different types in IC (IC206) as follows.  
 MN6401RRAC ..... with "C" mark  
 MN6401RRA ..... without "C" mark



When IC (IC206, MN6401RRAC) is used, resistor (R399) and leadwire are added, and foil is cut as follows.



# CABINET PARTS LOCATION

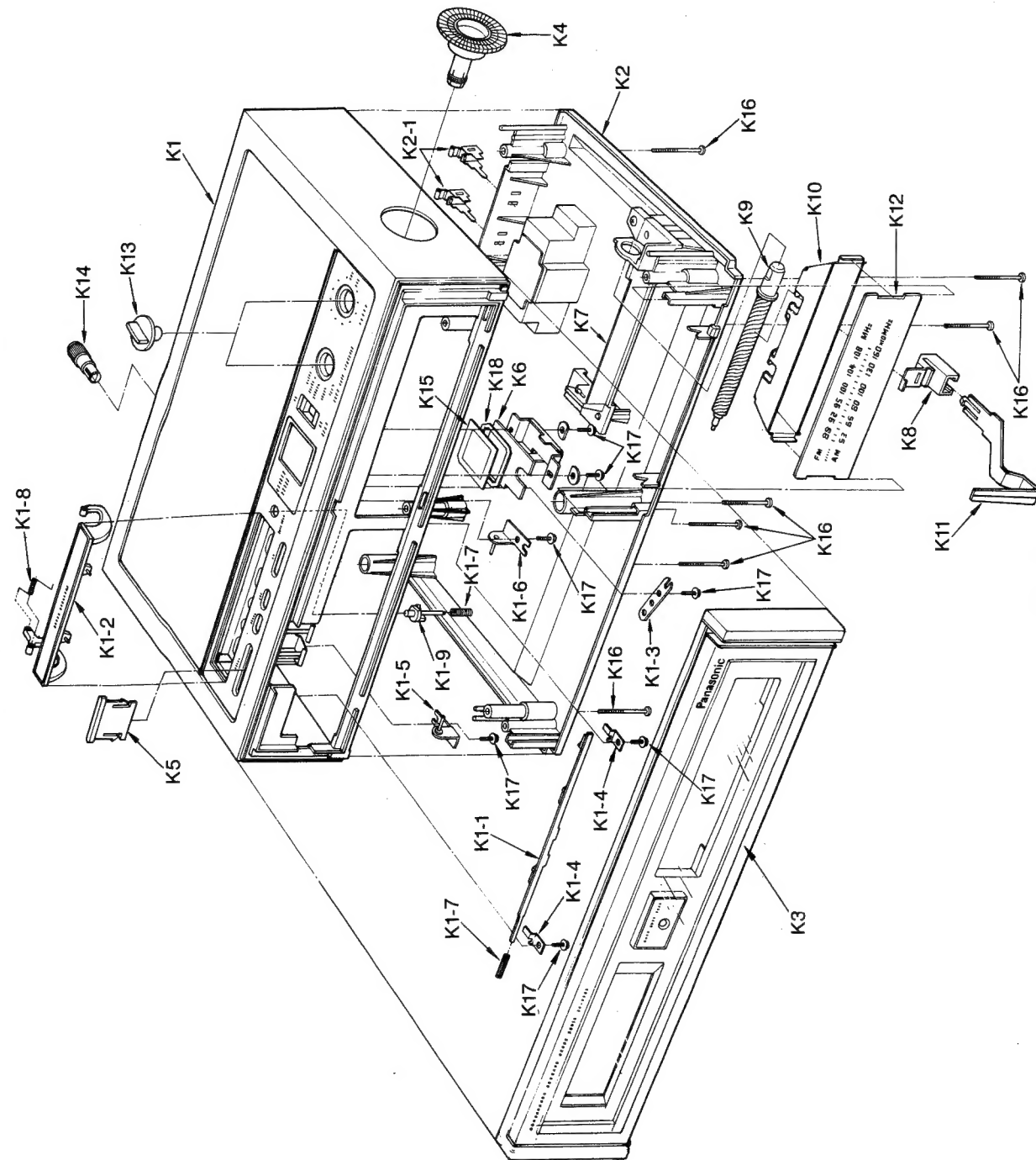


Fig. 13

## ELECTRICAL PARTS LOCATION

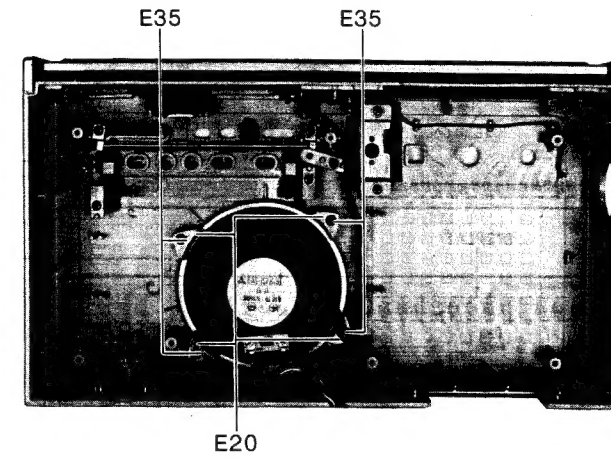


Fig. 14

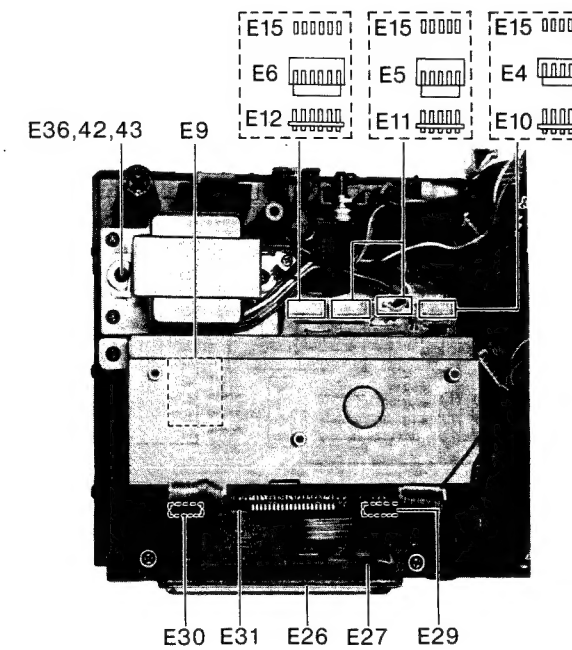


Fig. 16

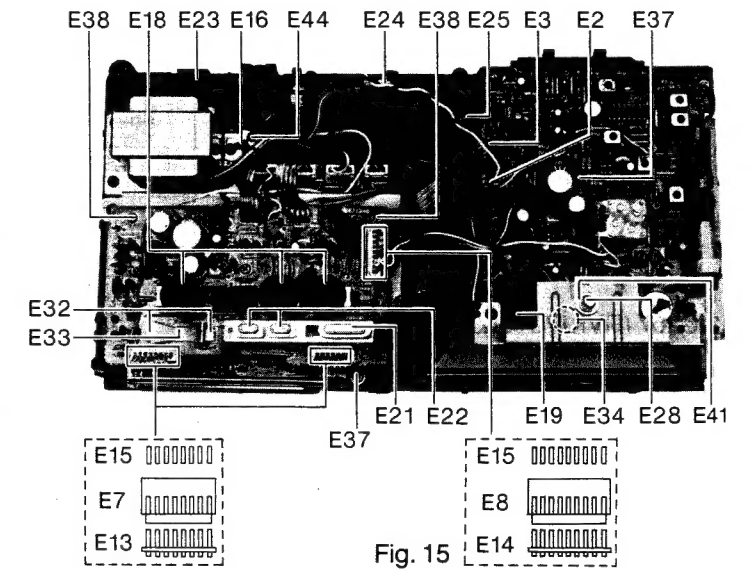


Fig. 15

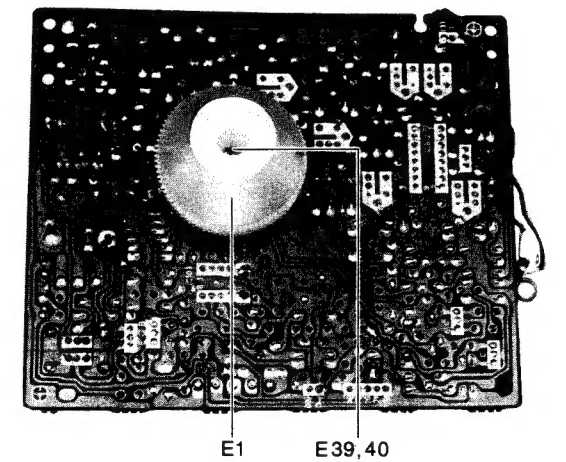


Fig. 17

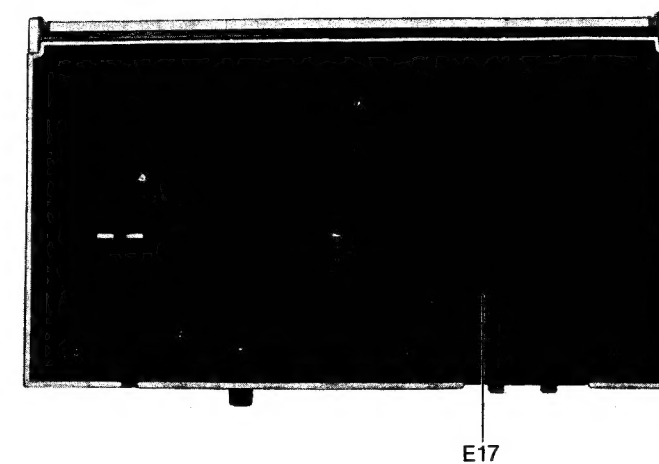


Fig. 18

## PACKING MATERIALS

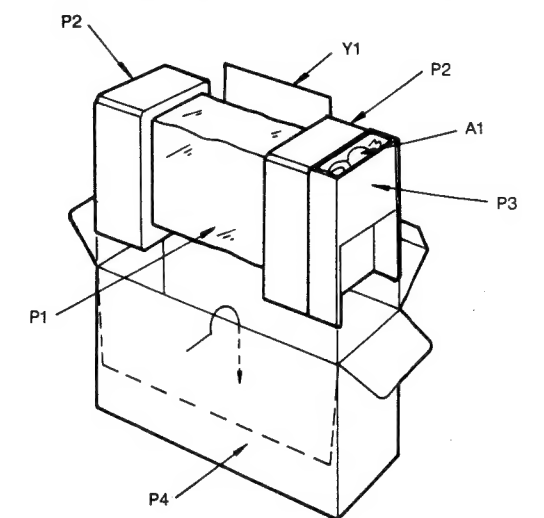


Fig. 19

# REPLACEMENT PARTS LIST .....Model RC-6800/© (RD81051811C1)

## NOTES: 1. Important safety notice.

- Components identified by  $\Delta$  mark have special characteristics important for safety.  
When replacing any of these components, use only manufacturer's specified parts.  
2. The S mark indicates service standard parts and may differ from production parts.

| Ref. No.  | Part No.     | Part Name & Description              | Per Set | Remarks  |
|---|--------------|--------------------------------------|---------|----------|
| INTEGRATED CIRCUITS, TRANSISTORS AND DIODES   |              |                                      |         |          |
| IC101   | AN7213       | IC                                   | 1       |          |
| IC102   | AN217PBB     | IC                                   | 1       |          |
| IC103   | RVIUPC575C2  | IC                                   | 1       |          |
| IC201   | RVITMS1943N2 | IC                                   | 1       |          |
| IC202, 203, 204   |              |                                      |         |          |
| IC205   | MN1202M      | IC                                   | 3       |          |
| IC206   | MN1402RB     | IC                                   | 1       |          |
| IC207   | MN6401LRA    | IC                                   | 1       |          |
| Q101  | RVIUPC78L05A | IC                                   | 1       |          |
| Q102, 105, 205, 207, 221  | 2SD592NCR    | Transistor (Si)                      | 1       |          |
| Q103, 104, 201, 206, 208 $\Delta$ , 213, 215 $\Delta$ , 218, 220, 222, 223  | 2SA564-Q     | Transistor (Ge)                      | 5       | S        |
| Q202  | 2SC828AQ     | Transistor (Si)                      | 13      | S        |
| D101, 108, 202 $\Delta$ , 206, 208 $\Delta$ , 215, 217, 219 $\Delta$ , 221, 223, 224, 226 $\Delta$ , 230, 238 $\Delta$ , 266, 268, 269, 272 | 2SA722-S     | Transistor (Ge)                      | 1       | S        |
| D102 $\Delta$ , 106, 216, 218, 222, 271   | MA161        | Diode (Si)                           | 58      | S        |
| D107, 112, 20A90  | SM112        | Diode (Si)                           | 10      | S        |
| D110, 111, 20A90  |              | Diode (Ge)                           | 2       | S        |
| D231  | LN28RP       | Diode (Ga)                           | 2       | S        |
| COILS AND TRANSFORMERS  |              |                                      |         |          |
| L105  | RLD4N21      | Tuning Coil, FM                      | 1       |          |
| L106  | RLD4M10      | Oscillator Coil, FM                  | 1       |          |
| L107  | RLF2V48      | Antenna Coil, AM                     | 1       |          |
| L108  | RLO2M3       | Oscillator Coil, AM                  | 1       |          |
| L204  | RLE5026      | Filter Coil                          | 1       |          |
| T101  | RLI4M101     | IFT, FM                              | 1       | S        |
| T102  | RLI2M201     | IFT, AM                              | 1       | S        |
| T103  | RLI2M202     | IFT, AM                              | 1       | S        |
| T104  | RLI2M401     | IFT, AM                              | 1       | S        |
| T105  | RLI4M509     | IFT, FM                              | 1       |          |
| T301  | RLT5K361A    | Power Transformer                    | 1       | $\Delta$ |
| VARIABLE RESISTORS  |              |                                      |         |          |
| VR101   | EVHLOAF30D54 | Variable Resistor, 50k $\Omega$ (D)  | 1       |          |
| VR308   | EVH60AF15B14 | Variable Resistor, 10k $\Omega$ (B)  | 1       |          |
| VR260   | EVT4AA00B15  | Variable Resistor, 100k $\Omega$ (B) | 1       |          |

| Ref. No.                     | Part No.    | Part Name & Description                          | Per Set | Remarks  |
|------------------------------|-------------|--|---------|----------|
| VARIABLE CAPACITORS          |             |  |         |          |
| VC101 $\Delta$               | RCVCB41C2M  | uning Capacitor, w/Trimmer                       | 1       |          |
| CT201                        | RCVCTZ51F   | Capacitor (CT101 $\Delta$ 104) Trimmer Capacitor | 1       |          |
| CERAMIC FILTER               |             |  |         |          |
| CF101                        | RVFL07MPZ   | Ceramic Filter                                   | 1       |          |
| SPEAKER                      |             |  |         |          |
|                              | EAS10P81ST  | Speaker, 10cm (4"), 8 $\Omega$                   | 1       |          |
| SWITCHES                     |             |  |         |          |
| S101                         | RSS2B12Z    | Switch, Band                                     | 1       |          |
| S201, 202                    | RSH1A05Z    | Switch, Slow/Fast                                | 2       |          |
| S203, 204, 207               | RSS3B04Z    | Switch, Time Set, Alarm                          | 3       |          |
| S206                         | RSHX008Z    | Selector, Brightness                             | 1       |          |
| S208                         | ESA26527    | Switch, Sleep/ON/OFF                             | 1       |          |
|                              |             | Switch, Auto Call Selector                       | 1       |          |
| J1                           | RJJ26A      | JACK   | 1       |          |
|                              |             | Jack, Remote Call Switch                         | 1       |          |
| RESISTORS (Value is in OHMS) |             |  |         |          |
| R101                         | ERD25FJ471  | 470  | 1       | S        |
| R102                         | ERD25FJ393  | 39 k   | 1       | S        |
| R120                         | ERD25FJ471  | 470  | 1       | S        |
| R121                         | ERD25FJ470  | 47   | 1       | S        |
| R122                         | ERD25TJ104  | 100 k  | 1       | S        |
| R123                         | ERD25TJ104  | 100 k  | 1       | S        |
| R124                         | ERD25FJ332  | 3.3 k  | 1       | S        |
| R125                         | ERD25TJ683  | 68 k   | 1       | S        |
| R126                         | ERD25FJ222  | 2.2 k  | 1       | S        |
| R127                         | ERD25FJ472  | 4.7 k  | 1       | S        |
| R128                         | ERD25TJ224  | 220 k  | 1       | S        |
| R129                         | ERD25FJ102  | 1 k  | 1       | S        |
| R130                         | ERD25FJ102  | 1 k  | 1       | S        |
| R131                         | ERD25FJ102  | 1 k  | 1       | S        |
| R133                         | ERD25FJ102  | 1 k  | 1       | S        |
| R134                         | ERD25FJ333  | 33 k   | 1       | S        |
| R140                         | ERD25FJ2R7  | 2.7  | 1       | S        |
| R141                         | ERD25TJ683  | 68 k   | 1       | S        |
| R142                         | ERD25TJ683  | 68 k   | 1       | S        |
| R143                         | ERD25FJ102  | 1 k  | 1       | S        |
| R146                         | ERD25TJ684  | 680 k  | 1       | S        |
| R147                         | ERD25FJ271  | 270  | 1       | S        |
| R148                         | ERD25FJ103  | 10 k   | 1       | S        |
| R149                         | ERD25TJ104  | 100 k  | 1       | S        |
| R150                         | ERD25TJ474  | 470 k  | 1       | S        |
| R151                         | ERD25FJ102  | 1 k  | 1       | S        |
| R153                         | ERD25FJ473  | 47 k   | 1       | S        |
| R154                         | ERD25FJ473  | 47 k   | 1       | S        |
| R155                         | ERD25TJ154  | 150 k  | 1       | S        |
| R156                         | ERD25TJ124  | 120 k  | 1       | S        |
| R157                         | ERD25FJ473  | 47 k   | 1       | S        |
| R158                         | ERC12ZGM335 | 3.3 M  | 1       | $\Delta$ |
| R159                         | ERD25FJ331  | 330  | 1       | S        |



| Ref. No. | Part No.   | Part Name & Description | Per Set | Remarks |
|----------|------------|-------------------------|---------|---------|
| R201     | ERD25TJ104 | 100 k 1/4W Carbon       | 1       | S       |
| R202     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R203     | ERD25FJ473 | 47 k " "                | 1       | S       |
| R204     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R205     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R206     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R207     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R208     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R209     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R210     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R211     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R212     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R213     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R214     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R215     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R216     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R217     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R218     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R219     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R220     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R221     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R222     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R223     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R224     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R225     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R226     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R227     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R228     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R229     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R230     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R231     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R232     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R233     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R234     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R235     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R236     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R237     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R238     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R239     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R240     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R241     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R242     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R243     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R244     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R245     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R246     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R247     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R248     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R249     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R250     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R251     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R252     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R253     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R254     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R255     | ERD25FJ681 | 680 " "                 | 1       | S       |
| R256     | ERD25FJ220 | 22 " "                  | 1       | S       |
| R257     | ERC14GJ825 | 8.2 M Solid             | 1       | S       |
| R258     | ERD25TJ823 | 82 k 1/4W Carbon        | 1       | S       |
| R259     | ERD25TJ683 | 68 k " "                | 1       | S       |
| R261     | ERD25TJ683 | 68 k " "                | 1       | S       |
| R262     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R263     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R264     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R265     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R266     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R267     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R268     | ERD25FJ563 | 56 k " "                | 1       | S       |
| R270     | ERD25FJ563 | 56 k " "                | 1       | S       |
| R271     | ERD25FJ473 | 47 k " "                | 1       | S       |
| R272     | ERD25FJ473 | 47 k " "                | 1       | S       |
| R273     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R274     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R275     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R277     | ERD25FJ273 | 27 k " "                | 1       | S       |
| R279     | ERD25FJ273 | 27 k " "                | 1       | S       |
| R280     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R281     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R282     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R283     | ERD25FJ273 | 27 k " "                | 1       | S       |
| R284     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R285     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R286     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R287     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R288     | ERD25TJ124 | 120 k " "               | 1       | S       |
| R289     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R290     | ERD25FJ183 | 18 k " "                | 1       | S       |
| R291     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R292     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R294     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R295     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R296     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R297     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R298     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R299     | ERD25TJ104 | 100 k " "               | 1       | S       |
| R300     | ERD25FJ333 | 33 k " "                | 1       | S       |
| R301     | ERD25FJ123 | 12 k " "                | 1       | S       |
| R302     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R303     | ERD25FJ101 | 100 " "                 | 1       | S       |
| R304     | ERD25FJ561 | 560 " "                 | 1       | S       |
| R305     | ERD25FJ102 | 1 k " "                 | 1       | S       |
| R306     | ERD25FJ222 | 2.2 k " "               | 1       | S       |
| R307     | ERD25FJ681 | 680 " "                 | 1       | S       |
| R309     | ERD25FJ102 | 1 k " "                 | 1       | S       |
| R350     | ERD25FJ331 | 330 " "                 | 1       | S       |
| R352     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R353     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R354     | ERD25TJ683 | 68 k " "                | 1       | S       |
| R355     | ERD25TJ474 | 470 k " "               | 1       | S       |
| R356     | ERD25FJ563 | 56 k " "                | 1       | S       |
| R357     | ERD25FJ103 | 10 k " "                | 1       | S       |
| R358     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R359     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R360     | ERD25TJ224 | 220 k " "               | 1       | S       |
| R361     | ERD25FJ223 | 22 k " "                | 1       | S       |



| Ref. No. | Part No.    | Part Name & Description                                      | Per Set | Remarks |
|----------|-------------|--|---------|---------|
| R362     | ERD25FJ104  | 100 k 1/4W Carbon  | 1       | S       |
| R363     | ERD25FJ103  | 10 k "   | 1       | S       |
| R364     | ERD25FJ223  | 22 k "   | 1       | S       |
| R366     | ERD25FJ182  | 1.8 k "  | 1       | S       |
| R367     | ERD25FJ222  | 2.2 k "  | 1       | S       |
|          |             | CAPACITORS (Value is in MICRO FARADS except P.P=PICO FARADS) |         |         |
| C101     | ECCD1H330KC | 33 PF 50V Ceramic  | 1       |         |
| C102     | ECCD1H390KC | 39 PF "  | 1       |         |
| C103     | ECCD1H050CC | 5 PF "   | 1       |         |
| C104     | ECCD1H181K  | 180 PF "   | 1       |         |
| C105     | ECCD1H181K  | 180 PF "   | 1       |         |
| C106     | ECCD1H030C  | 3 PF "   | 1       |         |
| C107     | ECCD1H180KC | 18 PF "  | 1       |         |
| C108     | ECCD1H223ZF | 0.022 "  | 1       |         |
| C109     | ECCD1H050CC | 5 PF "   | 1       |         |
| C110     | ECCD1H150KC | 15 PF "  | 1       |         |
| C111     | ECCD1H040C  | 4 PF "   | 1       |         |
| C112     | ECCD1H050CC | 5 PF "   | 1       |         |
| C113     | ECCD1H050CC | 5 PF "   | 1       |         |
| C114     | ECFVD473MD  | 0.047 25V Semi-Conductor                                     | 1       |         |
| C115     | ECCD1H223ZF | 0.022 50V Ceramic  | 1       |         |
| C116     | ECCD1H103MD | 0.01 "   | 1       |         |
| C118     | ECEA1HS100  | 10 Electrolytic  | 1       | S       |
| C120     | ECCD1H102ZF | 0.001 Ceramic  | 1       |         |
| C121     | ECFVD683MD  | 0.068 25V Semi-Conductor                                     | 1       |         |
| C122     | ECEA1AS471  | 470 10V Electrolytic   | 1       | S       |
| C123     | ECFVD223MD  | 0.022 25V Semi-Conductor                                     | 1       |         |
| C124     | ECFVD153MD  | 0.015 "  | 1       |         |
| C125     | ECCD1H103ZF | 0.01 Ceramic   | 1       |         |
| C126     | ECEA50Z1    | 1 Electrolytic   | 1       |         |
| C128     | ECCD1H153MD | 0.015 Ceramic  | 1       |         |
| C129     | ECEA1HS100  | 10 Electrolytic  | 1       | S       |
| C130     | ECCD1H103ZF | 0.01 Ceramic   | 1       |         |
| C131     | ECFVD153MD  | 0.015 Semi-Conductor   | 1       |         |
| C132     | ECEA252R2   | 2.2 Electrolytic   | 1       | S       |
| C134     | ECFVD223MD  | 0.022 "  | 1       |         |
| C135     | ECFVD223MD  | 0.022 Semi-Conductor   | 1       |         |
| C136     | ECCD1H331K  | 330 PF Ceramic   | 1       |         |
| C137     | ECFVD223MD  | 0.022 "  | 1       |         |
| C138     | ECEA25V2R2  | 2.2 Electrolytic   | 1       | S       |
| C140     | ECEA1CS330  | 33 16V Ceramic   | 1       |         |
| C141     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C142     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C143     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C144     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C145     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C150     | ECCD1H222MD | 0.022 "  | 1       |         |
| C151     | ECFVD103MD  | 0.01 Semi-Conductor  | 1       |         |
| C152     | ECEA1HS100  | 10 Electrolytic  | 1       | S       |
| C153     | ECEA1CS222  | 2200 16V Ceramic   | 1       |         |
| C154     | ECCD1H181K  | 180 PF "   | 1       |         |
| C155     | ECEA50Z1    | 1 Electrolytic   | 1       | S       |
| C156     | ECEA1HS100  | 10 "   | 1       | S       |
| C157     | ECEA1HS100  | 10 "   | 1       | S       |
| C158     | ECCD1H332MD | 0.0033 Ceramic   | 1       |         |
| C159     | ECEA1CS471  | 470 16V Electrolytic   | 1       | S       |
| C160     | ECEA1AS470  | 47 10V "   | 1       | S       |
| C161     | ECFVD103MD  | 0.01 Semi-Conductor  | 1       |         |
| C162     | ECCD1H471KB | 470 50V Ceramic  | 1       |         |
| C163     | ECFVD223MD  | 0.022 Semi-Conductor   | 1       |         |
| C164     | ECEA1AS221  | 220 10V Electrolytic   | 1       | S       |
| C165     | ECQG05104MZ | 0.1 Polyester  | 1       |         |
| C166     | ECCD1H101K  | 100 PF Ceramic   | 1       |         |
| C167     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C168     | ECEA1CS330  | 33 16V Electrolytic  | 1       | S       |
| C169     | ECCD1H101K  | 100 PF Ceramic   | 1       |         |
| C170     | ECCD1H101K  | 100 PF "   | 1       |         |
| C171     | ECCD1H101K  | 100 PF "   | 1       |         |
| C172     | ECFVD153MD  | 0.015 Semi-Conductor   | 1       |         |
| C183     | ECCD1H101K  | 100 PF Ceramic   | 1       |         |
| C184     | ECCD1H100KC | 10 PF "  | 1       |         |
| C201     | ECCD1H472MD | 0.0047 "   | 1       |         |
| C202     | ECEA50Z1    | 1 Electrolytic   | 1       | S       |
| C203     | ECEA252R7   | 4.7 25V "  | 1       |         |
| C204     | ECCD1H332MD | 0.0033 50V Ceramic   | 1       |         |
| C205     | ECCD1H223ZF | 0.022 "  | 1       |         |
| C206     | ECCD1H103ZF | 0.01 "   | 1       |         |
| C207     | ECQG05103KZ | 0.01 Polyester   | 1       |         |
| C208     | ECQG05103KZ | 0.01 "   | 1       |         |
| C209     | ECQG05103KZ | 0.01 "   | 1       |         |
| C210     | ECEA1ES471  | 470 25V Electrolytic   | 1       | S       |
| C211     | ECCD1H103ZF | 0.01 Ceramic   | 1       |         |
| C212     | ECEA252R7   | 4.7 25V Electrolytic   | 1       | S       |
| C213     | ECEA1AS470  | 47 10V "   | 1       |         |
| C214     | ECCD1H681KB | 680 PF Ceramic   | 1       |         |
| C216     | ECFVD103MD  | 0.01 Semi-Conductor  | 1       |         |
| C218     | ECCD1H101K  | 100 PF Ceramic   | 1       |         |
| C219     | ECCD1H100KC | 10 PF "  | 1       |         |
| C220     | ECCD1H223ZF | 0.022 "  | 1       |         |
| C221     | ECCD1H101K  | 100 PF "   | 1       |         |
| C223     | ECMS05820JH | 82 PF Mica   | 1       |         |
| C224     | ECQG05104JZ | 0.1 Polyester  | 1       | S       |
| C225     | ECEA50Z1    | 1 Electrolytic   | 1       |         |
| C226     | ECQG05823JZ | 0.082 Polyester  | 1       |         |
| C227     | ECQG05683JZ | 0.068 "  | 1       |         |
| C228     | ECQG05104JZ | 0.1 "  | 1       |         |
| C232     | ECEA5023R3  | 3.3 Electrolytic   | 1       | S       |
| C240     | ECEA1AS471  | 470 10V "  | 1       |         |
| C241     | ECEA0JS471  | 470 6.3V "   | 1       |         |
| C242     | ECEA0JS471  | 470 "  | 1       |         |
| C243     | ECCD1H103ZF | 0.01 Ceramic   | 1       |         |
| C244     | ECEA1CS102  | 0.001 16V Electrolytic                                       | 1       | S       |
| C245     | ECEA0JS471  | 470 6.3V "   | 1       | S       |
| C246     | ECEA1HS100  | 10 "   | 1       | S       |
| C247     | ECEA1AS470  | 47 10V "   | 1       | S       |
| C248     | ECEA502R2   | 0.22 50V "   | 1       | S       |
| C249     | ECEA1HS100  | 10 "   | 1       | S       |
| C250     | ECEA1AS221  | 220 "  | 1       | S       |
| C251     | ECCD1H103ZF | 0.01 Ceramic   | 1       |         |
| C252     | ECEA50Z1    | 1 Electrolytic   | 1       | S       |

| Ref. No. | Part No.    | Part Name & Description          | Per Set | Remarks |
|----------|-------------|----------------------------------|---------|---------|
| K1       | RYFC6800M8  | CABINET PARTS                    | 1       |         |
| K1-1     | RZUC210M    | Upper Cabinet Ass'y              | 1       |         |
| K1-2     | RYEC6800M   | Bracket, Button Cover            | 1       |         |
| K1-3     | RUL565Z     | Button Cover Ass'y               | 1       |         |
| K1-4     | RUL566Z     | Bracket, Button Cover            | 2       |         |
| K1-5     | RME183Z     | Shaft, Button Cover              | 1       |         |
| K1-6     | RME186Z     | Bracket, Button Cover            | 1       |         |
| K1-7     | RDS4123Z    | Spring, Button                   | 2       |         |
| K1-8     | RDS9060Z    | Spring, Button Cover             | 1       |         |
| K1-9     | RBC151Y     | Button, Clock Control Cover      | 1       |         |
| K2       | RYMC6800M   | Bottom Cabinet Ass'y             | 1       |         |
| K2-1     | RJF1065Z    | Terminal, EXT Ant                | 1       |         |
| K3       | RYFC6800M   | Front Panel Ass'y                | 2       |         |
| K4       | RYT1C6800M  | Tuning Knob Ass'y                | 1       |         |
| K5       | RYT2C6800M  | Doze Button Ass'y                | 1       |         |
| K6       | RUF1376Z    | Circuit Board, Manual Touch Call | 1       |         |
| K7       | RUG59Z      | Guide, Dial                      | 1       |         |
| K8       | RDA65Z      | Bracket, Pointer                 | 1       |         |
| K9       | RDG5631Z    | Shaft, Dial                      | 1       |         |
| K10      | RDH144Z     | Dial Back Plate                  | 1       |         |
| K11      | RDF765Z     | Pointer, Dial                    | 1       |         |
| K12      | RKD492X     | Dial Scale                       | 1       |         |
| K13      | RBS116Y     | Knob, Volume, Auto Call Selector | 1       |         |
| K14      | RBN411Z     | Knob, Call Volume                | 2       |         |
| K15      | RHG5013Z    | Rubber, Manual Touch Call        | 1       |         |
| K16      | XTB3+40CFN  | Screw, Cabinet Cover M'tg        | 1       |         |
| K17      | XTV3+10G    | Screw, Button Cover M'tg         | 7       |         |
| K18      | RHR886Z     | Spacer, Manual Touch Call        | 8       |         |
| E1       | RZDC210M    | ELECTRICAL PARTS                 | 1       |         |
| E2       | RJS143Z     | Dial Drum Ass'y                  | 2       |         |
| E3       | RJS146Z     | Socket, 2 pin                    | 1       |         |
| E4       | RJS186Z     | Socket, 5 pin                    | 1       |         |
| E5       | RJS187Z     | Socket, 4 pin                    | 1       |         |
| E6       | RJS188Z     | Socket, 5 pin                    | 2       |         |
| E7       | RJS190Z     | Socket, 6 pin                    | 1       |         |
| E8       | RJS191Z     | Socket, 8 pin                    | 1       |         |
| E9       | RJS175Z     | Socket, 9 pin                    | 1       |         |
| E10      | RJP232Z     | Socket, 28 pin, IC               | 1       |         |
| E11      | RJP233Z     | Plug, 4 pin                      | 1       |         |
| E12      | RJP234Z     | Plug, 5 pin                      | 2       |         |
| E13      | RJP236Z     | Plug, 6 pin                      | 1       |         |
| E14      | RJP237Z     | Plug, 8 pin                      | 2       |         |
| E15      | RJT707Z     | Plug, 9 pin                      | 1       |         |
| E16      | RJT702B     | Terminal, Socket                 | 45      |         |
| E17      | RJB5001Y    | Terminal, Earth                  | 3       |         |
| E18      | RUV336Z     | Battery Snap                     | 1       |         |
| E19      | RUV379Z     | Cover, Switch                    | 3       |         |
| E20      | RMS40Z      | Cover, Switch                    | 1       |         |
| E21      | RBC148Y     | Bracket, Speaker                 | 4       |         |
| E22      | RBC150Y     | Button, ON                       | 1       |         |
| E23      | RJA9Y       | Button, Sleep, OFF               | 1       |         |
| E24      | RHR108A     | Power Cord, AC Lead Cap          | 2       |         |
| E25      | RHR429Z     | Tube                             | 1       |         |
| E26      | RAD5LT20Y   | Display Tube                     | 1       |         |
| E27      | RHR463Z     | Spacer, Display Tube             | 3       |         |
| E28      | ESA3375B    | Switch Lever, Auto Call Selector | 1       |         |
| E29      | RJT665Z     | Terminal, 3 Pin                  | 1       |         |
| E30      | RJT666Z     | Terminal, 5 Pin                  | 1       |         |
| E31      | RJT668Z     | Terminal, 10 Pin                 | 2       |         |
| E32      | RJT612Z     | Terminal, Doze                   | 2       |         |
| E33      | RJT635Z     | Spring, Doze                     | 1       |         |
| E34      | XAMR57T150A | Pilot Map                        | 2       |         |
| E35      | XTV3+12G    | Screw, Speaker etc. M'tg         | 13      |         |
| E36      | XTV3+6F     | Screw, Transformer M'tg          | 2       |         |
| E37      | XTW3+12QR   | Red Screw, Circuit Board M'tg    | 7       |         |
| E38      | XSN3+6S     | Screw, Circuit Board M'tg        | 3       |         |
| E39      | XSN26+6     | Screw, Drum M'tg                 | 1       | S       |
| E40      | XWC26B      | Washer                           | 1       | S       |
| E41      | XNS8        | Nut, Time Call Volume etc. M'tg  | 2       | S       |
| E42      | XWT3        | Washer, Transformer              | 2       | S       |
| E43      | XWA3B       | Washer, Transformer              | 3       | S       |
| E44      | XSN3+6S     | Screw, Earth Terminal            | 1       | S       |
| A1       | RJL2Z       | ACCESSORY                        | 1       |         |
|          |             | Remote Call Switch               |         |         |
| P1       | RPH320Z     | PACKING MATERIALS                | 1       |         |
| P2       | RPN9362Z    | Soft Cover                       | 1       |         |
| P3       | RPN3265Z    | Pad Complete                     | 1       |         |
| P4       | RPK1025Z    | Pad                              | 1       |         |
| P4       | RPK1026Z    | Gift Box, for USA                | 1       |         |
|          |             | Gift Box, for Canada             |         |         |
| Y1       | ROX6632Z    | PRINTED MATERIALS                | 1       |         |
| Y1       | ROX6633Z    | Instruction Book, for USA        | 1       |         |
|          |             | Instruction Book, for Canada     |         |         |